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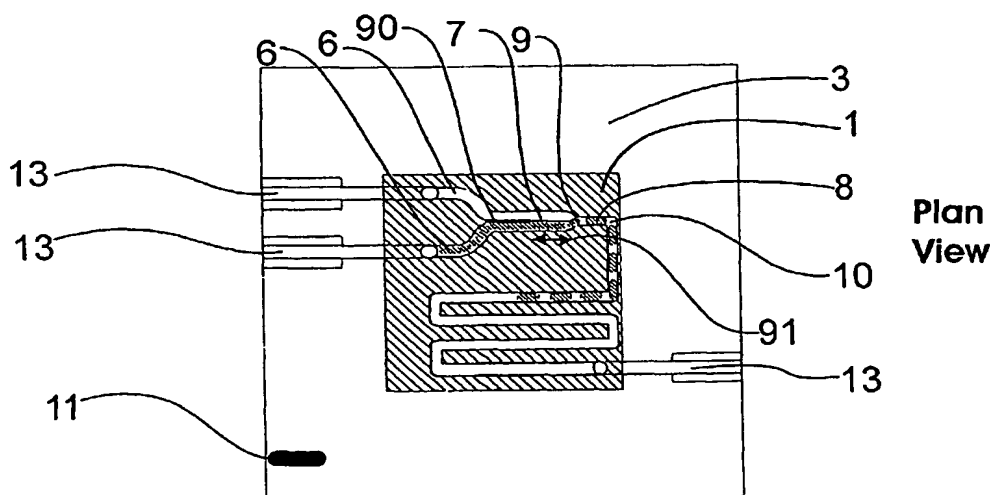
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(54) Title: MICROFLUIDIC DEVICE & METHODS FOR CONSTRUCTION & APPLICATION



(57) **Abstract:** A microfluidic device comprises first and second inlet passages (13) for respective immiscible fluids, these inlet passages merging into a third passage (8) along which the two fluids flow under parallel laminar flow conditions, the third passage being formed with a constriction or other discontinuity (9) causing the two fluids to form into a flow of alternate segments.